



SEQUENCE LISTING

<110> Kiefer, Michael C.
Valenzuela, Pablo D.T.
Barr, Philip J.

<120> Expression and Use of Human Fibroblast Growth Factor Receptor

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<140> US 09/620,561

<141> 2000-07-20

<150> US 08/479,992

<151> 1995-05-12

<150> US 08/315,686

<151> 1994-09-30

<150> US 08/046,020

<151> 1993-04-12

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Ile	Thr	Gly	Glu	Glu	Val	Glu	Val	Gln	Asp	Ser	Val	Pro	Ala	Asp	Ser
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Lys	Lys	Leu	His	Ala	Val	Pro	Ala	Ala	Lys	Thr	Val	Lys
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Pro	Ser	Ser	Gly	Thr	Pro	Asn	Pro	Thr	Leu	Arg	Trp	Leu
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Lys	Glu	Phe	Lys	Pro	Asp	His	Arg	Ile	Gly	Gly	Tyr	Lys
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Tyr	Gln	Leu	Asp	Val	Val	Glu	Arg	Ser	Pro	His	Arg	Pro
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Ala	Gly	Leu	Pro	Ala	Asn	Lys	Thr	Val	Ala	Leu	Gly	Ser
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Phe	Met	Cys	Lys	Val	Tyr	Ser	Asp	Pro	Gln	Pro	His	Ile
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Lys	His	Ile	Glu	Val	Asn	Gly	Ser	Lys	Ile	Gly	Pro	Asp
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Tyr	Val	Gln	Ile	Leu	Lys	Thr	Ala	Gly	Val	Asn	Thr	Thr
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Met	Glu	Val	Leu	His	Leu	Arg	Asn	Val	Ser	Phe	Glu	Asp
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Tyr	Thr	Cys	Leu	Ala	Gly	Asn	Ser	Ile	Gly	Leu	Ser	His
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Trp	Leu	Thr	Val	Leu	Glu	Ala	Leu	Glu	Glu	Arg	Pro	Ala
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Ser	Pro	Leu	Tyr	Leu	Glu	Ile	Ile	Tyr	Cys	Thr	Gly	Ala
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Lys	Ser	Ile	Pro	Leu	Arg	Arg	Gln	Val	Thr	Val	Ser	Ala
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Ala	Ser	Met	Asn	Ser	Gly	Val	Leu	Leu	Val	Arg	Pro	Ser
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Ser	Ser	Gly	Thr	Pro	Met	Leu	Ala	Gly	Val	Ser	Glu	Tyr
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Glu	Asp	Pro	Arg	Trp	Glu	Leu	Pro	Arg	Asp	Arg	Leu	Val
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Pro	Leu	Gly	Glu	Gly	Cys	Phe	Gly	Gln	Val	Val	Leu	Ala
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Gly	Leu	Asp	Lys	Asp	Lys	Pro	Asn	Arg	Val	Thr	Lys	Val
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Met	Leu	Lys	Ser	Asp	Ala	Thr	Glu	Lys	Asp	Leu	Ser	Asp
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Tyr	Ala	Ser	Lys	Gly	Asn	Leu	Arg	Glu	Tyr	Leu	Gln	Ala
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Pro	Gly	Leu	Glu	Tyr	Cys	Tyr	Asn	Pro	Ser	His	Asn	Pro
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Leu Ser Ser Lys Asp Leu Val Ser Cys Ala Tyr Gln Val Ala Arg Gly
 595 600 605
 Met Glu Tyr Leu Ala Ser Lys Lys Cys Ile His Arg Asp Leu Ala Ala
 610 615 620
 Arg Asn Val Leu Val Thr Glu Asp Asn Val Met Lys Ile Ala Asp Phe
 625 630 635 640
 Gly Leu Ala Arg Asp Ile His His Ile Asp Tyr Tyr Lys Lys Thr Thr
 645 650 655
 Asn Gly Arg Leu Pro Val Lys Trp Met Ala Pro Glu Ala Leu Phe Asp
 660 665 670
 Arg Ile Tyr Thr His Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu
 675 680 685
 Trp Glu Ile Phe Thr Leu Gly Gly Ser Pro Tyr Pro Gly Val Pro Val
 690 695 700
 Glu Glu Leu Phe Lys Leu Leu Lys Glu Gly His Arg Met Asp Lys Pro
 705 710 715 720
 Ser Asn Cys Thr Asn Glu Leu Tyr Met Met Met Arg Asp Cys Trp His
 725 730 735
 Ala Val Pro Ser Gln Arg Pro Thr Phe Lys Gln Leu Val Glu Asp Leu
 740 745 750
 Asp Arg Ile Val Ala Leu Thr Ser Asn Gln Glu Tyr Leu Asp Leu Ser
 755 760 765
 Met Pro Leu Asp Gln Tyr Ser Pro Ser Phe Pro Asp Thr Arg Ser Ser
 770 775 780
 Thr Cys Ser Ser Gly Glu Asp Ser Val Phe Ser His Glu Pro Leu Pro
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 Leu Lys Arg Arg
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 Asp Leu Leu Gln Leu Arg Cys Arg Leu Arg Asp Asp Val Gln Ser Ile
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 Asn Trp Leu Arg Asp Gly Val Gln Leu Ala Glu Ser Asn Arg Thr Arg
 65 70 75 80
 Ile Thr Gly Glu Glu Val Glu Val Gln Asp Ser Val Pro Ala Asp Ser
 85 90 95
 Gly Leu Tyr Ala Cys Val Thr Ser Ser Pro Ser Gly Ser Asp Thr Thr
 100 105 110
 Tyr Phe Ser Val Asn Val Ser Asp Ala Leu Pro Ser Ser Glu Asp Asp
 115 120 125
 Asp Asp Asp Asp Asp Ser Ser Ser Glu Glu Lys Glu Thr Asp Asn Thr
 130 135 140

Lys	Pro	Asn	Arg	Met	Pro	Val	Ala	Pro	Tyr	Trp	Thr	Ser	Pro	Glu	Lys
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Met	Glu	Lys	Lys	Leu	His	Ala	Val	Pro	Ala	Ala	Lys	Thr	Val	Lys	Phe
				165					170						175
Lys	Cys	Pro	Ser	Ser	Gly	Thr	Pro	Asn	Pro	Thr	Leu	Arg	Trp	Leu	Lys
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Asn	Gly	Lys	Glu	Phe	Lys	Pro	Asp	His	Arg	Ile	Gly	Gly	Tyr	Lys	Val
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Arg	Tyr	Ala	Thr	Trp	Ser	Ile	Ile	Met	Asp	Ser	Val	Val	Pro	Ser	Asp
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Lys	Gly	Asn	Tyr	Thr	Cys	Ile	Val	Glu	Asn	Glu	Tyr	Gly	Ser	Ile	Asn
225					230					235					240
His	Thr	Tyr	Gln	Leu	Asp	Val	Val	Glu	Arg	Ser	Pro	His	Arg	Pro	Ile
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Leu	Gln	Ala	Gly	Leu	Pro	Ala	Asn	Lys	Thr	Val	Ala	Leu	Gly	Ser	Asn
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Lys	Glu	Met	Glu	Val	Leu	His	Leu	Arg	Asn	Val	Ser	Phe	Glu	Asp	Ala
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Ser	Gly	Thr	Lys	Lys	Ser	Asp	Phe	His	Ser	Gln	Met	Ala	Val	His	Lys
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Leu	Ala	Lys	Ser	Ile	Pro	Leu	Arg	Arg	Gln	Val	Thr	Val	Ser	Ala	Asp
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Val	Lys	Met	Leu	Lys	Ser	Asp	Ala	Thr	Glu	Lys	Asp	Leu	Ser	Asp	Leu
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Val	Glu	Tyr	Ala	Ser	Lys	Gly	Asn	Leu	Arg	Glu	Tyr	Leu	Gln	Ala	Arg
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Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Lys Thr Val				
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Ala Leu Gly Ser Asn Val Glu Phe Met Cys Lys Val Tyr Ser Asp Pro				
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Gln Pro His Ile Gln Trp Leu Lys His Ile Glu Val Asn Gly Ser Lys				
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Ile Gly Pro Asp Asn Leu Pro Tyr Val Gln Ile Leu Lys Thr Ala Gly				
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Val Asn Thr Thr Asp Lys Glu Met Glu Val Leu His Leu Arg Asn Val				
225	230		235	240
Ser Phe Glu Asp Ala Gly Glu Tyr Thr Cys Leu Ala Gly Asn Ser Ile				
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Gly Leu Ser His His Ser Ala Trp Leu Thr Val Leu Glu Ala Leu Glu				
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Glu Arg Pro Ala Val Met Thr Ser Pro Leu Tyr Leu Glu Ile Ile Ile				
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Tyr Cys Thr Gly Ala Phe Leu Ile Ser Cys Met Val Gly Ser Val Ile				
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Val Tyr Lys Met Lys Ser Gly Thr Lys Lys Ser Asp Phe His Ser Gln				
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Met Ala Val His Lys Leu Ala Lys Ser Ile Pro Leu Arg Arg Gln Val				
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Thr Val Ser Ala Asp Ser Ser Ala Ser Met Asn Ser Gly Val Leu Leu				
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Val Arg Pro Ser Arg Leu Ser Ser Gly Thr Pro Met Leu Ala Gly				
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Val Ser Glu Tyr Glu Leu Pro Glu Asp Pro Arg Trp Glu Leu Pro Arg				
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Asp Arg Leu Val Leu Gly Lys Pro Leu Gly Glu Gly Cys Phe Gly Gln				
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Val Val Leu Ala Glu Ala Ile Gly Leu Asp Lys Asp Lys Pro Asn Arg				
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Val Thr Lys Val Ala Val Lys Met Leu Lys Ser Asp Ala Thr Glu Lys				
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Asp Leu Ser Asp Leu Ile Ser Glu Met Glu Met Met Lys Met Ile Gly				
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Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala Cys Thr Gln Asp Gly				
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Pro Leu Tyr Val Ile Val Glu Tyr Ala Ser Lys Gly Asn Leu Arg Glu				
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Tyr Leu Gln Ala Arg Arg Pro Pro Gly Leu Glu Tyr Cys Tyr Asn Pro				
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Ser His Asn Pro Glu Glu Gln Leu Ser Ser Lys Asp Leu Val Ser Cys				
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Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu Ala Ser Lys Lys Cys				
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Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg Asp Ile His His Ile				
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Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu Pro Val Lys Trp Met				
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Pro	Tyr	Pro	Gly	Val	Pro	Val	Glu	Glu	Leu	Phe	Lys	Leu	Leu	Lys	Glu
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Met	Met	Arg	Asp	Cys	Trp	His	Ala	Val	Pro	Ser	Gln	Arg	Pro	Thr	Phe
				645					650					655	
Lys	Gln	Leu	Val	Glu	Asp	Leu	Asp	Arg	Ile	Val	Ala	Leu	Thr	Ser	Asn
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Gln	Glu	Tyr	Leu	Asp	Leu	Ser	Met	Pro	Leu	Asp	Gln	Tyr	Ser	Pro	Ser
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Phe	Pro	Asp	Thr	Arg	Ser	Ser	Thr	Cys	Ser	Ser	Gly	Glu	Asp	Ser	Val
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Phe	Ser	His	Glu	Pro	Leu	Pro	Glu	Glu	Pro	Cys	Leu	Pro	Arg	His	Pro
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Leu	Pro	Ser	Ser	Glu	Asp	Asp	Asp	Asp	Asp	Asp	Ser	Ser	Ser	Ser	Glu
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Glu	Lys	Glu	Thr	Asp	Asn	Thr	Lys	Pro	Asn	Arg	Met	Pro	Val	Ala	Pro
	50					55				60					
Tyr	Trp	Thr	Ser	Pro	Glu	Lys	Met	Glu	Lys	Lys	Leu	His	Ala	Val	Pro
65					70					75					80
Ala	Ala	Lys	Thr	Val	Lys	Phe	Lys	Cys	Pro	Ser	Ser	Gly	Thr	Pro	Asn
				85				90						95	
Pro	Thr	Leu	Arg	Trp	Leu	Lys	Asn	Gly	Lys	Glu	Phe	Lys	Pro	Asp	His
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Arg	Ile	Gly	Gly	Tyr	Lys	Val	Arg	Tyr	Ala	Thr	Trp	Ser	Ile	Ile	Met
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Asp	Ser	Val	Val	Pro	Ser	Asp	Lys	Gly	Asn	Tyr	Thr	Cys	Ile	Val	Glu
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Asn	Glu	Tyr	Gly	Ser	Ile	Asn	His	Thr	Tyr	Gln	Leu	Asp	Val	Val	Glu
145					150					155					160
Arg	Ser	Pro	His	Arg	Pro	Ile	Leu	Gln	Ala	Gly	Leu	Pro	Ala	Asn	Lys
			165					170						175	
Thr	Val	Ala	Leu	Gly	Ser	Asn	Val	Glu	Phe	Met	Cys	Lys	Val	Tyr	Ser
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Asp	Pro	Gln	Pro	His	Ile	Gln	Trp	Leu	Lys	His	Ile	Glu	Val	Asn	Gly
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Ser	Lys	Ile	Gly	Pro	Asp	Asn	Leu	Pro	Tyr	Val	Gln	Ile	Leu	Lys	Thr
	210					215					220				

Ala	Gly	Val	Asn	Thr	Thr	Asp	Lys	Glu	Met	Glu	Val	Leu	His	Leu	Arg
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Asn	Val	Ser	Phe	Glu	Asp	Ala	Gly	Glu	Tyr	Thr	Cys	Leu	Ala	Gly	Asn
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Ser	Ile	Gly	Leu	Ser	His	His	Ser	Ala	Trp	Leu	Thr	Val	Leu	Glu	Ala
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Leu	Glu	Glu	Arg	Pro	Ala	Val	Met	Thr	Ser	Pro	Leu	Tyr	Leu	Glu	Ile
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Ile	Ile	Tyr	Cys	Thr	Gly	Ala	Phe	Leu	Ile	Ser	Cys	Met	Val	Gly	Ser
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Val	Ile	Val	Tyr	Lys	Met	Lys	Ser	Gly	Thr	Lys	Lys	Ser	Asp	Phe	His
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Ser	Gln	Met	Ala	Val	His	Lys	Leu	Ala	Lys	Ser	Ile	Pro	Leu	Arg	Arg
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Gln	Val	Thr	Val	Ser	Ala	Asp	Ser	Ser	Ala	Ser	Met	Asn	Ser	Gly	Val
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Leu	Leu	Val	Arg	Pro	Ser	Arg	Leu	Ser	Ser	Ser	Gly	Thr	Pro	Met	Leu
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Ala	Gly	Val	Ser	Glu	Tyr	Glu	Leu	Pro	Glu	Asp	Pro	Arg	Trp	Glu	Leu
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Pro	Arg	Asp	Arg	Leu	Val	Leu	Gly	Lys	Pro	Leu	Gly	Glu	Gly	Cys	Phe
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Gly	Gln	Val	Val	Leu	Ala	Glu	Ala	Ile	Gly	Leu	Asp	Lys	Asp	Lys	Pro
				405					410					415	
Asn	Arg	Val	Thr	Lys	Val	Ala	Val	Lys	Met	Leu	Lys	Ser	Asp	Ala	Thr
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Arg	Glu	Tyr	Leu	Gln	Ala	Arg	Arg	Pro	Pro	Gly	Leu	Glu	Tyr	Cys	Tyr
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Ser	Cys	Ala	Tyr	Gln	Val	Ala	Arg	Gly	Met	Glu	Tyr	Leu	Ala	Ser	Lys
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Lys	Cys	Ile	His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Val	Leu	Val	Thr	Glu
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Asp	Asn	Val	Met	Lys	Ile	Ala	Asp	Phe	Gly	Leu	Ala	Arg	Asp	Ile	His
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His	Ile	Asp	Tyr	Tyr	Lys	Lys	Thr	Thr	Asn	Gly	Arg	Leu	Pro	Val	Lys
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Trp	Met	Ala	Pro	Glu	Ala	Leu	Phe	Asp	Arg	Ile	Tyr	Thr	His	Gln	Ser
			580					585						590	
Asp	Val	Trp	Ser	Phe	Gly	Val	Leu	Leu	Trp	Glu	Ile	Phe	Thr	Leu	Gly
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Gly	Ser	Pro	Tyr	Pro	Gly	Val	Pro	Val	Glu	Glu	Leu	Phe	Lys	Leu	Leu
		610				615					620				
Lys	Glu	Gly	His	Arg	Met	Asp	Lys	Pro	Ser	Asn	Cys	Thr	Asn	Glu	Leu
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Tyr	Met	Met	Met	Arg	Asp	Cys	Trp	His	Ala	Val	Pro	Ser	Gln	Arg	Pro
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 35 40 45
 Glu Lys Glu Thr Asp Asn Thr Lys Pro Asn Arg Met Pro Val Ala Pro
 50 55 60
 Tyr Trp Thr Ser Pro Glu Lys Met Glu Lys Lys Leu His Ala Val Pro
 65 70 75 80
 Ala Ala Lys Thr Val Lys Phe Lys Cys Pro Ser Ser Gly Thr Pro Asn
 85 90 95
 Pro Thr Leu Arg Trp Leu Lys Asn Gly Lys Glu Phe Lys Pro Asp His
 100 105 110
 Arg Ile Gly Gly Tyr Lys Val Arg Tyr Ala Thr Trp Ser Ile Ile Met
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 Asn Glu Tyr Gly Ser Ile Asn His Thr Tyr Gln Leu Asp Val Val Glu
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 Arg Ser Pro His Arg Pro Ile Leu Gln Ala Gly Leu Pro Ala Asn Lys
 165 170 175
 Thr Val Ala Leu Gly Ser Asn Val Glu Phe Met Cys Lys Val Tyr Ser
 180 185 190
 Asp Pro Gln Pro His Ile Gln Trp Leu Lys His Ile Glu Val Asn Gly
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 Ser Lys Ile Gly Pro Asp Asn Leu Pro Tyr Val Gln Ile Leu Lys Val
 210 215 220
 Ile Met Ala Pro Val Phe Val Gly Gln Ser Thr Gly Lys Glu Thr Thr
 225 230 235 240
 Val Ser Gly Ala Gln Val Pro Val Gly Arg Leu Ser Cys Pro Arg Met
 245 250 255
 Gly Ser Phe Leu Thr Leu Gln Ala His Thr Leu His Leu Ser Arg Asp
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B/D

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